

1 ABSTRACT

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3 "Detector Assemblies and Methods"

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5 The rotational position of a shaft (10) with respect
6 to a sleeve (12) is determined by using a sensor
7 (14) rotating with the shaft (10) to detect an earth
8 vector such as magnetic or gravitational field,
9 using a coil (18) on the shaft in conjunction with a
10 plurality of ferromagnetic elements (16) on the
11 sleeve to monitor relative rotation, and calculating
12 the rotational position from these parameters.
13 Applicable to downhole use, particularly gamma ray
14 measurements.

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